

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1859038	((multilayer\$3 multi-layer\$3 multi near1 layer\$3) or (dual-layer\$3 dual near1 layer\$3) or (plural-layer\$3 plural near1 layer\$3) (two layer\$3)).clm.	US-PGPUB; USPAT	OR	ON	2007/07/02 10:23
L2	472737	((PCB printed near2 circuit near2 board substrate)).clm.	US-PGPUB; USPAT	OR	ON	2007/07/02 10:23
L3	11723	((alignment aligning register\$3 registration) near3 (hole)).clm.	US-PGPUB; USPAT	OR	ON	2007/07/02 10:23
L4	198	L1 same L2 same L3	US-PGPUB; USPAT	OR	ON	2007/07/02 10:23
L5	85	L1 same L2 same L3	US-PGPUB	OR	ON	2007/07/02 10:23
S1	17	((("5156772") or ("6246789") or ("6064757") or ("5643699") or ("5388517") or ("5548372") or ("5768443") or ("5980088") or ("6205364") or ("5856844") or ("6449516") or ("4566038") or ("4680627") or ("4894790") or ("5161202") or ("6165658") or ("6567713"))).PN.	USPAT	OR	OFF	2007/06/18 10:27
S6	1	US-20020015165-A1.DID.	US-PGPUB; USPAT	OR	OFF	2005/06/14 09:40
S7	10	((("4,829,375") or ("4,136,948") or ("5,164,742") or ("5,274,394") or ("5,403,684") or ("5,453,777") or ("5,459,941") or ("5,500,801") or ("5,548,372") or ("5,699,742"))).PN.	USPAT	OR	OFF	2005/06/14 10:52
S8	2166	((382/144,145,147,151,287,289) or (438/16) or (348/126)).CCLS.	USPAT	OR	OFF	2005/06/20 09:01
S9	21583	(alignment aligning) near3 (mark marking fiducial pattern crosshair vias through near2 hole)	USPAT	OR	ON	2005/06/14 10:58
S10	254	S8 and S9	USPAT	OR	ON	2005/06/14 10:55
S11	587521	(PCB printed near2 circuit near2 board substrate)	USPAT	OR	ON	2006/12/06 10:54
S12	172	S10 and S11	USPAT	OR	ON	2005/06/14 10:55
S13	118557	(multilayer\$3 multi-layer\$3 multi near1 layer\$3)	USPAT	OR	ON	2005/06/14 10:56
S14	124326	(multilayer\$3 multi-layer\$3 multi near1 layer\$3) or (dual-layer\$3 dual near1 layer\$3) or (plural-layer\$3 plural near1 layer\$3)	USPAT	OR	ON	2006/12/06 10:54
S15	26225	S11 with S14	USPAT	OR	ON	2005/06/14 10:58

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S16	108	S11 with S14 same S9	USPAT	OR	ON	2005/06/14 10:59
S17	60450	(alignment aligning register\$3 registration) near3 (mark marking fiducial pattern crosshair vias through near2 hole)	USPAT	OR	ON	2005/06/20 09:01
S18	174	S11 with S14 same S17	USPAT	OR	ON	2005/06/14 11:52
S19	2	S8 and S18	USPAT	OR	ON	2005/06/14 10:59
S20	2166	((382/144,145,147,151,287,289) or (438/16) or (348/126)).CCLS.	USPAT	OR	OFF	2005/06/20 09:01
S21	36394	(alignment aligning register\$3 registration) near3 (hole)	USPAT	OR	ON	2006/12/06 10:55
S22	30	S20 and S21	USPAT	OR	ON	2005/06/20 09:02
S23	587521	(PCB printed near2 circuit near2 board substrate)	USPAT	OR	ON	2005/06/20 09:02
S24	21	S22 and S23	USPAT	OR	ON	2005/06/20 09:02
S25	124326	(multilayer\$3 multi-layer\$3 multi near1 layer\$3) or (dual-layer\$3 dual near1 layer\$3) or (plural-layer\$3 plural near1 layer\$3)	USPAT	OR	ON	2005/06/20 09:23
S27	73148	S23 and S25	USPAT	OR	ON	2005/06/20 09:23
S28	784383	(alignment aligning register\$3 registration)	USPAT	OR	ON	2005/06/20 09:30
S29	21319	S27 and S28	USPAT	OR	ON	2005/06/20 09:24
S30	96	S29 and S20	USPAT	OR	ON	2005/06/20 09:24
S31	40976	(alignment aligning register\$3 registration) near3 opening	USPAT	OR	ON	2005/06/20 09:31
S32	4747	S23 and S31	USPAT	OR	ON	2005/06/20 09:31
S33	744	S23 and S31 and S25	USPAT	OR	ON	2005/06/20 09:31
S34	2	S23 and S31 and S25 and S20	USPAT	OR	ON	2005/06/20 09:31
S35	6	align\$5 same non-periodic near2 pattern	USPAT	OR	OFF	2005/06/21 14:38
S36	9	align\$5 same non-periodic near2 pattern	USPAT	OR	ON	2005/06/21 14:39
S37	11	align\$5 same (non-periodic nonperiodic) near2 pattern	USPAT	OR	ON	2005/06/21 14:43
S38	2	register\$5 same (non-periodic nonperiodic) near2 pattern	USPAT	OR	ON	2005/06/21 14:50
S39	1	("5388517").PN.	USPAT	OR	OFF	2005/06/21 14:51
S40	6	("3015266"   "4273045"   "4431923"   "4468706"   "4704033").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/21 14:51
S41	14	("5388517").URPN.	USPAT	OR	OFF	2005/06/21 14:55

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S42	1	("5388517").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/21 15:07
S43	6	("5643699").URPN.	USPAT	OR	OFF	2005/06/21 15:07
S44	2	("5170058"   "5643699").PN. .	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/21 16:02
S45	1	"10/045,651".app.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/21 16:02
S46	1	("6205364").PN.	USPAT	OR	OFF	2006/02/16 11:30
S47	4269386	(multilayer\$3 multi-layer\$3 multi near1 layer\$3) or (dual-layer\$3 dual near1 layer\$3) or (plural-layer\$3 plural near1 layer\$3) (two layer\$3)	US-PGPUB; USPAT	OR	ON	2006/12/06 10:57
S48	1009353	(PCB printed near2 circuit near2 board substrate)	US-PGPUB; USPAT	OR	ON	2006/12/06 10:58
S49	48506	(alignment aligning register\$3 registration) near3 (hole)	US-PGPUB; USPAT	OR	ON	2006/12/06 10:58
S50	1895	S47 same S48 same S49	US-PGPUB; USPAT	OR	ON	2006/12/06 10:56
S51	1762409	((multilayer\$3 multi-layer\$3 multi near1 layer\$3) or (dual-layer\$3 dual near1 layer\$3) or (plural-layer\$3 plural near1 layer\$3) (two layer\$3)). clm.	US-PGPUB; USPAT	OR	ON	2006/12/06 10:57
S52	440287	((PCB printed near2 circuit near2 board substrate)).clm.	US-PGPUB; USPAT	OR	ON	2006/12/06 10:58
S53	11304	((alignment aligning register\$3 registration) near3 (hole)).clm.	US-PGPUB; USPAT	OR	ON	2006/12/06 10:58
S54	187	S51 same S52 same S53	US-PGPUB; USPAT	OR	ON	2007/07/02 10:23
S55	80	S51 same S52 same S53	US-PGPUB	OR	ON	2007/07/02 10:23
S56	5	("20040222197" "20050263498" "20 060138097" "20060138098" "54027 26").PN.	US-PGPUB; USPAT	OR	OFF	2007/06/18 10:29
S57	1	("5529441").PN.	US-PGPUB; USPAT	OR	OFF	2007/06/18 10:42